



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 5.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Griess-Romijn Nitrite Reagent
Product Code	077-01852

Supplier FUJIFILM Wako Pure Chemical Corporation

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Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Serious eye damage/eye irritation
Skin sensitization

Category 2A Category 1

Pictograms



Signal word

Warning

Hazard statements

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse

Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Tartaric acid	89	N/A	N/A	N/A	N/A-07-0185-3
Sulfanilic acid	10	173.19	(3)-1971	*	121-57-3
1-Aminonaphthalene	1	143.19	(4)-321	*	134-32-7

Note on ISHL No.:

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

^{*} in the table means announced chemical substances.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

chemical protective gloves (JIS T 8116) Hand protection

protective eyeglasses or chemical safety goggles (JIS T 8147) Eye protection

Long-sleeved work clothes Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

White - nearly white Color crystals - powder **Appearance** characteristic odor Odor no data available Melting point/freezing point Boiling point, initial boiling point and boiling range no data available no data available **Flammability** no data available **Evaporation rate:** Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits Upper:

no data available no data available Lower: Flash point no data available Auto-ignition temperature: no data available Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities water : slightly soluble . Ethanol : soluble .

n-Octanol/water partition coefficient:(log Pow)
No data available
Vapour pressure
No data available
no data available
no data available
vapour density
No data available
Particle characteristics
no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available **Chemical stability** May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
	Sulfanilic acid	= 12300 mg/kg (Rat)	> 2000 mg/kg (Rat)	N/A
Ī	1-Aminonaphthalene	680 mg/kg (Rat)	447 mg/kg (Rat)	> 0.056 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Sulfanilic acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
1-Aminonaphthalene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
'	classification results.	classification results.	classification results.

Chemical Name			Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Sulfanilic acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
1-Aminonaphthalene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Sulfanilic acid	Based on the NITE GHS classification results.
1-Aminonaphthalene	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Sulfanilic acid	Based on the NITE GHS classification results.
1-Aminonaphthalene	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Sulfanilic acid	Based on the NITE GHS classification results.

1-Aminonaphthalene	Based on the NITE GHS classification results.			
Reproductive cell mutagenicity				
Chemical Name		germ cell m	utagencity source	information
Sulfanilic acid	В	Based on the NITE GHS classification results.		
1-Aminonaphthalene	1-Aminonaphthalene Based on the NITE GHS classification results.			ults.
Carcinogenicity				
Chemical Name		Carcinog	enicity source infe	ormation
Sulfanilic acid Based on the NITE GHS classification results.		ults.		
1-Aminonaphthalene		ased on the NITE GH	S classification resu	ults.
·	•			
0	==	1450	4.00111	10011

Chemical Name	NTP	IARC	ACGIH	JSOH
1-Aminonaphthalene 134-32-7	N/A	Group 3	N/A	N/A

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Sulfanilic acid	Based on the NITE GHS classification results.
1-Aminonaphthalene	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Sulfanilic acid	Based on the NITE GHS classification results.
1-Aminonaphthalene	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Sulfanilic acid	Based on the NITE GHS classification results.	
1-Aminonaphthalene	Based on the NITE GHS classification results.	

Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Sulfanilic acid	Based on the NITE GHS classification results.	
1-Aminonaphthalene	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sulfanilic acid	EC50:Desmodesmus subspicatus 91 mg/L 72 h	LC50 : Pimephales Promelas 100.4 mg/L 96 h	EC50: Daphnia magna 85.66 mg/L 48 h
1-Aminonaphthalene	N/A	LC50:Oryzias latipes 7 mg/L 48 h	N/A

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
Sulfanilic acid	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	
1-Aminonaphthalene	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

N

No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

^{*}NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

UN number

Proper shipping name: **UN classfication**

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: **UN classfication**

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

Not regulated IATA

UN number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable **Poisonous and Deleterious** Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Law Art.57-2, Notifiable Substances

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) 【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Industrial Safety and Health Act (

2025~) 【2025.4.1~】Notifiable Substances (Law Art.57-2) Not applicable

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Not applicable

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Sulfanilic acid	10	2025/4/1

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
1-Aminonaphthalene 134-32-7 (1)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet